We claim:

1. An apparatus, comprising:

a table containing a plurality of entries, each entry including a frequency field and a voltage field; and

a register coupled to the table and having a selection field to select one of the plurality of entries.

2. The apparatus of claim 1, wherein the register also has a limit field to specify how many entries are selectable.

3. The apparatus of claim 2, wherein the selection field is a read-write field and the limit field is a read-only field.

4. The apparatus of claim 1, wherein the frequency field includes a processor clock frequency indicator.

5. The apparatus of claim 4, wherein the processor clock frequency indicator is a multiplier to be used with a phase locked loop circuit to generate a processor clock frequency.

6. The apparatus of claim 1, wherein the voltage field includes a processor operating voltage identifier.

7. The apparatus of claim 1, wherein the table is disposed in non-volatile memory.

8. The apparatus of claim 7, wherein the table includes at least two entries.

9. A computer system, comprising:

a clock generator to selectively output a clock signal at any of a plurality of selectable processor clock frequencies;

a power supply to selectively output any of a plurality of selectable processor operating voltages;

a table coupled to the clock generator and the power supply and containing a plurality of entries, each entry including a frequency field and a voltage field; and

a register coupled to the table and having a selection field to select one of the plurality of entries.

10. The system of claim 9, wherein the register also has a limit field to specify how many entries are selectable.

11 The system of claim 10, wherein the selection field is a read-write field and the limit field is a read-only field.

12. The system of claim 9, wherein the frequency field includes a processor clock frequency indicator.

13. The system of claim 12, wherein the processor clock frequency indicator is a multiplier to be used with a phase locked loop circuit to generate the processor clock frequency.

14. The system of claim 9, wherein the voltage field includes a processor operating voltage identifier.

15. The system of claim 9, wherein the table is disposed in non-volatile memory.

16. The system of claim 15, wherein the table includes at least two entries.

17. A method, comprising:
writing into a selection field of a register;
using a content of the selection field to select one of a plurality of entries in a table, each entry having a frequency field and a voltage field.

18. The method of claim 17, wherein a content of the frequency field indicates a processor clock frequency.

19. The method of claim 17, wherein a content of the voltage field identifies a processor operating voltage.

20. The method of claim 17, further comprising:
using a content of a limit field in the register to determine how many entries are in the plurality of entries.

21. The method of claim 17, further comprising:

using a content of the frequency field of the selected one of the plurality of entries to control an operating frequency of a processor clock.

22. The method of claim 21, wherein using includes using the content of the frequency field as a multiplier to control an output frequency of a phase locked loop.

23. The method of claim 17, further comprising:

using a content of the voltage field of the selected one of the plurality of entries to control an operating voltage to a processor.

24. The method of claim 23, wherein using includes using the content of the voltage field to select from a plurality of operating voltages to the processor.

25. The method of claim 17, wherein a content of the frequency field and a content of the voltage field in a selected entry of the table are matched to produce a combination of processor clock frequency and processor operating voltage that are operable in an associated processor.

26. A machine-readable medium having stored thereon instructions, which when executed by a processor cause said processor to perform:

determining a desired combination of processor clock frequency and processor operating voltage; and

writing to a register to select the desired combination of processor clock frequency and processor operating voltage from a table.

27. The medium of claim 26, further comprising:
reading from the register to determine the current combination of processor clock frequency and processor operating voltage.

28. The medium of claim 26, further comprising:
reading from the register to determine how many combinations of processor clock frequency and processor operating voltage are available to be selected.

29. The medium of claim 26, wherein:
determining a desired combination is based on at least one of:
a performance goal;
a power consumption goal; and
operating characteristics of the processor.